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**A-91-46**



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ANN ARBOR, MICHIGAN 48105

January 3, 1992

OFFICE OF  
AIR AND RADIATION

SUBJECT: Effect of Deleting the LA-4 in a Sequence of FTP Tests

FROM: Martin E. Reineman, Manager *MER*  
Correlation and Engineering Services

TO: Docket No. A-91-46

A question was raised during an examination of the test protocol used for exhaust emission tests in the investigation of the MMT fuel additive. Specifically, whether the FTP HC emissions would be affected by the deletion of the LA-4 preconditioning cycle before the second and subsequent FTP tests in a consecutive series of two or more FTPs.

Assuming representative test vehicles with properly functioning emission control systems are used, and other design protocols are similar, such as use of FTP fuels and vehicle fueling practice, consistent application or deletion of the diurnal heat build, and representative evaporative emission canister loading at the start of the test sequence, the effect of deleting the second and subsequent LA-4 preconditioning driving cycles on HC exhaust emissions, would be negligible.

